Contents

Ayars JE, Hutmacher RB, Hoffman GJ, Letey J, Ben-Asher J, Solomon KH: Response of sugar beet to non-uniform irrigation 101

Barrs HD → Dugas WA
Barrs HD → Meyer WS
Ben-Asher J → Ayars JE
Ben-Asher J → Magnusson DA
de Bruyn LP → de Kock J
Buj A → Castel JR

Carberry PS → McCown RL
Castel JR, Buj A: Response of *Salustiana* oranges to high frequency deficit irrigation 121
Cerda A, Nieves M, Guillen MG: Salt tolerance of lemon trees as affected by rootstock 245
Cohen Y, Huck MG, Hesketh JD, Frederick JR: Sap flow in the stem of water stressed soybean and maize plants 45
Constable GA, Hodgson AS: A comparison of drip and furrow irrigated cotton on a cracking clay soil. 3. Yield and quality of four cultivars 149
Constable GA, Rochester IJ, Hodgson AS: A comparison of drip and furrow irrigated cotton on a cracking clay soil. 1. Growth and nitrogen uptake 137
Constable GA → Hodgson AS

Daniells IG → Hodgson AS
Dinar A → Letey J
Dugas WA, Meyer WS, Barrs HD, Fleetwood RJ: Effects of soil type on soybean crop water use in weighing lysimeters. II. Root growth, soil water extraction and water-table contributions 77
Dugas WA → Meyer WS
Duddy GR → Hodgson AS

Enriquez C → Miyamoto S

Fleetwood RJ → Dugas WA
Fleetwood RJ → Meyer WS
Frederick JR → Cohen Y
Frenkel H, Mantell A, Vinten A, Meiri A: Double line-source sprinkler system for determining the separate and interactive effects of water and salinity on forage corn 227

Gardner JC → Stegman EC
Green KL → McCown RL
Guillen MG → Cerda A
Gupta SK, Sharma SK: Response of crops to high exchangeable sodium percentage 173

Hargreaves JNG → McCown RL
Harman WL, Regier C, Lansford VD, Petr F, Marek TH: Barley yield response to irrigation and potential profits in the Texas High Plains 163
Hatfield JL → Wanjura DF
Hedge DM, Srinivas K: Plant water relations and nutrient uptake in French bean 51
Hendrickx JMH, Wierenga PJ: Variability of soil water tension in a trickle irrigated Chile pepper field 23
Hesketh JD → Cohen Y
Hodgson AS, Constable GA, Duddy GR, Daniells IG: A comparison of drip and furrow irrigated cotton on a cracking clay soil. 2. Water use efficiency, waterlogging, root distribution and soil structure 143
Hodgson AS → Constable GA
Hoffman GJ → Ayars JE
Huck MG → Cohen Y
Human JJ → de Kock J
Hutmacher RB → Ayars JE

Jensen HE, Svendsen H, Jensen SE, Mogensen VO: Canopy-air temperature of crops grown under different irrigation regimes in a temperate humid climate 181
Jensen SE → Jensen HE

Khosla BK → Minhas PS
de Kock J, de Bruyn LP, Human JJ: The relative sensitivity to plant water stress during the reproductive phase of upland cotton (*Gossypium hirsutum* L.) 239

Lansford VD → Harman WL
Leidi EO, Lips SH: Effect of NaCl salinity on photosynthesis, ^{14}C-translocation, and yield in wheat plants irrigated with ammonium or nitrate solutions 155
Letey J, Dinar A, Woodring C, Oster JD: An economic analysis of irrigation systems 37
Letey J → Ayars JE
Lips SH → Leidi EO

Magnusson DA, Ben-Asher J: Simulated water and solute distribution from a crossed triple line-source 31
Mantell A → Frenkel H
Marek TH → Harman WL
Mateos L → Meyer WS
McCown RL, Wall BH, Carberry PS, Hargreaves JNG, Green KL, Poulton PL: Design and evaluation of an irrigation system for creating water gradients under an automatic rain shelter 189

Meiri A → Frenkel H
Meyer WS, Dugas WA, Barrs HD, Smith RCG, Fleetwood RJ: Effects of soil type on soybean crop water use in weighing lysimeters. I. Evaporation 69
Meyer WS, Mateos L: Soil type effects on soybean crop water use in weighing lysimeters. III. Effect of lysimeter canopy height discontinuity on evaporation 233
Meyer WS → Dugas WA
Minhas PS, Sharma DR, Khosla BK: Mungbean response to irrigation with waters of different salinities 57
Miyamoto S, Enriquez C: Comparative effects of chemical amendments on salt and NA leaching 83
Mogensen VO → Jensen HE

Nieves M → Cerda A

Oster JD → Letey J
Oweis TY, Walker WR: Zero-inertia model for surge flow furrow irrigation 131

Petr F → Harman WL
Poulton PL → McCown RL
Prabowo A, Prastowo B, Wright GC: Growth, yield and soil water extraction of irrigated and dryland peanuts in South Sulawesi, Indonesia 63
Prasad SN → Singh VP
Prastowo B → Prabowo A

Regier C → Harman WL
Rochester IJ → Constable GA
Rose CW → Thorburn PJ

Scarlatos PD → Singh VP
Schatz BG → Stegman EC
Sharma DR → Minhas PS
Sharma SK → Gupta SK
Shaw RJ → Thorburn PJ
Singh VP, Scarlatos PD, Prasad SN: An improved Lewis-Milne equation for the advance phase of border irrigation 1
Slavich PG, Yang J: Estimation of field scale leaching rates from chloride mass balance and electromagnetic induction measurements 7
Smith RCG → Meyer WS
Solomon KH → Ayars JE
Srinivas K → Hegde DM
Stegman EC, Schatz BG, Gardner JC: Yield sensitivities of short season soybeans to irrigation management 111
Svendsen H → Jensen HE

Thorburn PJ, Rose CW: Interpretation of solute profile dynamics in irrigated soils. III. A simple model of bypass flow in soils 219
Thorburn PJ, Rose CW, Shaw RJ, Yule DF: Interpretation of Solute profile dynamics in irrigated soils. I. Mass balance approaches 199
Thorburn PJ, Rose CW, Yule DF: Interpretation of solute profile dynamics in irrigated soils. II. Convective-dispersive approach 209
Upchurch DR → Wanjura DF
Vinten A → Frenkel H
Walker WR → Oweis TY
Wall BH → McCown RL
Wallach R: Effective irrigation uniformity as related to root zone depth 15
Wanjura DF, Hatfield JL, Upchurch DR: Crop water stress index relationships with crop productivity 93
Wierenga PJ → Hendrickx JMH
Woodring C → Letey J
Wright GC → Prabowo A
Yang J → Slavich PG
Yule DF → Thorburn PJ
Book Review 129, 197, 251